

0 Level Math

4024/12

Paper 1

May June 2022

2. Consider the sequence of patterns using counters.



Pattern 1 Pattern 2 Pattern 3

Fig. 1 Complete the table

Pattern number	1	2	3	4	5
Number of counters	4	9	16	25	36

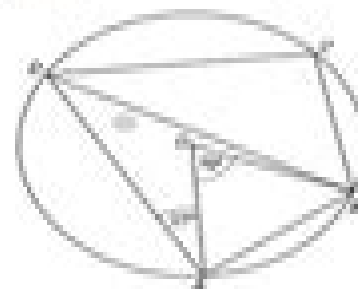
3. Find an expression, in terms of n , for the number of counters in Pattern n .

$$\text{No. of Counters in } n\text{th Pattern} = n^2 + 3n$$

$$a_n = 2 + 3n$$

$$2 + 3n$$

4. A circle with center O and radius 5 cm is shown. The points A , B , C , D , E are on the circumference. The lines OA , OB , OC , OD , OE are drawn. The angles $\angle AOB$, $\angle BOC$, $\angle COD$, $\angle DOE$ are marked as x , y , z , w respectively. The angle $\angle AOE$ is marked as 180° .



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5. A circle with center O and radius 5 cm is shown. The points A , B , C , D , E are on the circumference. The lines OA , OB , OC , OD , OE are drawn. The angles $\angle AOB$, $\angle BOC$, $\angle COD$, $\angle DOE$ are marked as x , y , z , w respectively. The angle $\angle AOE$ is marked as 180° .

6. The graph of $y = \frac{1}{2}x^2 - 3x + 2$ is shown. The line $y = 2$ is also shown. The points A , B , C , D are the points of intersection of the line and the parabola. The area of the region bounded by the line and the parabola is shaded.



$$\frac{1}{2} \times 6 \times 2 = 6$$

7. By drawing a tangent, estimate the gradient of the curve at $x = 2$.

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